

CENTRAL INTELLIGENCE AGENCY

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The following equipment is used by the 326 Communications Battalion and by the 499 Communications Training Battalion:

Soviet "RBM" Receiving and Transmitting Set

1. Battalion staff headquarters are, in general, supplied with this model which contains United States tubes. The transmitter has four tubes, and the antenna radiates ten watts of power. The voice range is 30 kilometers, and the code range is 50 kilometers. The receiver has six tubes and operates on the simplex system exclusively. The wave length of the receiver and transmitter is from 70 to 240 volni (Soviet designation for wave length), which corresponds to from 1,750 to 6,000 kilocycles, or from 172 to 50 meters. The antenna pillar or wire is 2.40 meters long and has five sections. The set can be transported in three parts, one comprising the receiver in a case weighing 15 kilograms, another in a case for the source of energy with battery of 210 volts, weighing 20 kilograms, and the third containing two batteries of the "NK-2" type.

German Receiving Set of the "Torn-EE" Model

2. This model which has a wire antenna has a frequency range of from 76 to 7,500 kilocycles or approximately from 4,000 to 40 meters. It can be packed into two cases. One case contains the receiver, and the other the source of energy. The source of energy is a battery of four volts with vibrator. The set does not have a rectifier, and as a result cannot operate on industrial current.

Soviet "RSBF" Receiving and Transmittine Set

3. This set which operates on the telegraph and telephone duplex system has United States tubes. The receiver is a United States type, and the transmitter is the Soviet RSBF model. The wave range is from 100 to 450 volni which corresponds to from 2,500 to 11,250 kilocycles, or from 120 to 26 meters. The code range is 150 kilometers, and the voice range is 80 kilometers. The transmitter is fed by four batteries, each of which has a power of six volts; and by a Zis unit. From the batteries the current passes through special transformers which change the voltage on the receiver end to 500 volts, and to 1,500 volts on the transmitter. The antenna which

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radiates 45 watts of power is either a semi-telescopic pole, which can be drawn out, or a wire in the shape of an L or a T. The initials "RSBF" stand for "radio set of the bombing flotilla". This model, however, is also used as a mobile radio on trucks. Division staff headquarters are supplied with this model.

Soviet "R-13" Receiving and Transmitting Set

4. The set has a small transmitter and antenna which radiates 20 watts of power. The code range is 50 kilometers, and the voice range is 30 kilometers. The set operates on the simplex system.

Soviet "RB" Receiving and Transmitting Set

5. The "RB" has characteristics similar to the "RBM" model.

Soviet "A-7-A" Ultra Short Wave Receiving and Transmitting Set

6. This is a mobile set exclusively, and is supplied to infantry regiments. The entire set can be transported and operated by one man in a wooden case weighing 16 kilograms. The antenna is a pole two meters in length and radiates the power of one watt. The voice range is ten kilometers. The frequency is from 27,000 to 32,000 kilocycles, which corresponds to from 11 to 9 meters.

German "Torn-Fub" (sic) Receiving and Transmitting Set

7. The set which operates on the duplex system is transported with facility. The voice range is 40 kilometers. The pole-shaped antenna which is made of tubes or pipes radiates 20 watts of power. The frequency is from 5,000 to 5,000 kilocycles or from 100 to 160 meters.

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